

CLAIMS

What is claimed is:

- 1 1. A surgical drain comprising:
 - 2 (a) a longitudinal axis;
 - 3 (b) an interior lumen;
 - 4 (c) an outer surface;
 - 5 (c) an opening for connection to an outflow tube;
 - 6 (e) a first plurality of openings formed in the outer surface and
 - 7 extending along the longitudinal axis, at least some of the first plurality of openings in
 - 8 fluid communication with the interior lumen; and
 - 9 (f) a second plurality of openings, each of the second plurality of
 - 10 openings having a different shape and size than the openings of the first plurality of
 - 11 openings.
- 1 2. A surgical drain having an elongated, flexible body, two ends, a length
- 2 and a longitudinal axis, and comprising:
 - 3 (a) an outer surface;
 - 4 (b) an interior lumen;
 - 5 (c) an opening to connect the drain to an outflow tube;
 - 6 (d) a first plurality of openings formed in the outer surface and in fluid
 - 7 communication with the interior lumen, the first plurality of openings comprising
 - 8 alternating large cross-sectional openings and small cross-sectional openings.
- 1 3. The drain of claim 2 wherein the large cross-sectional openings are
- 2 circular and the small cross-sectional openings are rectangular.
- 1 4. The drain of claim 2 wherein the first plurality of openings is formed in
- 2 the outer surface along the longitudinal axis.

1 5. The drain of claim 2 that further includes a second plurality of openings
2 comprising alternating large cross-section openings and small cross-sectional openings.

1 6. The drain of claim 5 wherein the second plurality of openings is formed in
2 the outer surface along the longitudinal axis.

1 7. The drain of claim 5 wherein the first plurality of openings is formed in
2 the outer surface along the longitudinal axis.

1 8. The drain of claim 5 wherein the large cross-sectional openings of the
2 second plurality of openings are offset from the large cross-sectional openings of the first
3 plurality of openings.

1 9. The drain of claim 5 wherein the small cross-sectional openings of the
2 second plurality of openings are offset from the small cross-sectional openings of the first
3 plurality of openings.

1 10. The drain of claim 2 wherein the interior lumen extends the length of the
2 drain.

1 11. The drain of claim 2 wherein the opening is at an end of the drain.

1 12. The inflow section of claim 11 wherein the end opposite the opening is
2 plugged to prevent bodily material from entering.

1 13. A surgical drain system comprising the drain of claim 2.

1 14. The surgical drain system of claim 13 further comprising a reservoir and
2 an outflow to be extending from the drain to the reservoir

3 15. A surgical drain comprising:

4 (a) an outer surface, an internal lumen, a generally flat bottom surface
5 and a generally flat top surface;

- 6 (b) two side surfaces connecting the top surface and the bottom
7 surface;
- 8 (c) circular openings in the top surface; and
- 9 (d) non-circular openings in one of the side surfaces.
- 10 16. The drain of claim 15 wherein the non-circular openings are rectangular.
- 11 17. The drain of claim 15 wherein the circular openings have a diameter of 4
12 mm.
- 13 18. The drain of claim 15 that further includes circular openings on the bottom
14 surface.
- 15 19. The drain of claim 15 that includes non-circular openings on both side
16 surfaces.
- 17 20. The drain of claim 15 that includes at least one rib in the internal lumen to
18 separate the top surface and the bottom surface.
- 19 21. The drain of claim 20 that includes two ribs to separate the top surface and
20 the bottom surface.
- 21 22. The drain of claim 2 wherein the lumen has diameter of 6 mm..
- 22 23. A surgical drain having an outer surface, an interior lumen, and a channel
23 formed in the outer surface, the channel for impeding the in-growth of bodily tissue
24 therein, and one or more openings formed at least partially in the base of channel, the
25 openings in fluid communication with the interior lumen.
- 26 24. The drain of claim 23 wherein there are four channels.
- 27 25. The drain of claim 23 wherein the channel is about 0.5 mm deep.
- 28 26. The drain of claim 23 wherein the drain has a circular cross-section.

- 29 27. The drain of claim 23 wherein the openings are rectangular.
- 30 28. The drain of claim 27 that further comprises circular openings.
- 31 29. The drain of claim 28 wherein the circular openings are formed along the
- 32 channel.
- 33 30. The drain of claim 29 wherein the circular openings alternate with the
- 34 rectangular openings.

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